

For Research Use Only

CARNS1 Recombinant monoclonal antibody

Catalog Number: 88342-1-RR



Basic Information

Catalog Number: 88342-1-RR	GenBank Accession Number: BC036557	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 57571	CloneNo.: 260860B7
Isotype: IgG	UNIPROT ID: A5YM72	Recommended Dilutions: WB: 1:2000-1:10000
Immunogen Catalog Number: AG22761	Full Name: ATP-grasp domain containing 1	
	Calculated MW: 827 aa, 88 kDa	
	Observed MW: 88-103 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human	WB : pig skeletal muscle tissue, human skeletal muscle tissue

Background Information

CARNS1, located at human chromosome 11q13.2, encodes carnosine synthase 1 belonging to the ATP-grasp ATPase family (EC 6.3.2.11). It mediates ATP-dependent synthesis of carnosine in skeletal muscle and homocarnosine in the central nervous system, two vital histidine-containing dipeptides with antioxidant and pH-buffering effects. This gene is highly conserved across vertebrates and preferentially expressed in brain and muscle tissues. Aberrant CARNS1 expression disturbs dipeptide homeostasis, linking to aging-related sensory decline and tumor progression via impaired carnosine-mediated tumor suppression. (PMID: 20097752)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

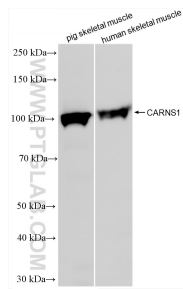
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88342-1-RR (ATPGD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.